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**CLAIMS:**

1. Topical skin preparation comprising a testosterone ester with an esterifying acid having between six to eleven carbon atoms, provided that the topical preparation does not comprise estrogen or estrogen derivatives.
- 5 2. Topical skin preparations for the use in the prevention of atrophy and aging of the skin, comprising a testosterone ester with an esterifying acid having between six to eleven carbon atoms, provided that the topical preparation does not comprise estrogen or estrogen derivatives.
3. Topical skin preparations according to claim 1, wherein the testosterone  
10 ester is testosterone phenyl propionate.
4. Topical skin preparations according to claim 2, wherein the testosterone phenyl propionate is in a concentration of 0.1-3% by weight of the total preparation.
5. Topical skin preparations according to claim 4, wherein the testosterone  
15 phenyl propionate is in a concentration of 0.5% to 2.5% by weight of the total preparation.
6. Topical skin preparation according to 5, wherein the testosterone phenyl propionate is in a concentration of 1% by weight of the total preparation.
7. Topical skin preparations according to claim 2, in the form of an oil solution.
- 20 8. Topical skin preparations according to claim 7, wherein the oil is a medium chain triglyceride.
9. Topical skin preparations according to any one of claims 1-8, further comprising at least one additional therapeutically active agent.
10. Topical skin preparations according to claim 9 wherein the additional  
25 therapeutic agent is selected from the group consisting of: vitamin A, retinoic acid, vitamin D<sub>3</sub>, calcitriol, vitamin E, essential fatty acid, essential fatty acid ester, or a combination of at least two of the above agents.

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11. Use of a testosterone ester with an esterifying acid having between six to eleven carbon atoms for the preparation of a topical skin preparation, provided that the topical preparation does not comprise estrogen or estrogen derivatives.
12. Use according to claim 11 wherein the topical skin preparations are for the prevention of atrophy and aging of the skin..
13. Use according to claim 11, wherein the testosterone ester is testosterone phenyl propionate.
14. Use according to claim 11, wherein the testosterone phenyl propionate is in a concentration of 0.1-3% by weight of the total preparation.
15. Use according to claim 14, wherein the testosterone phenyl propionate is in a concentration of 0.5% to 2.5% by weight of the total preparation.
16. Use according to 15, wherein the testosterone phenyl propionate is in a concentration of 1% by weight of the total preparation.
17. Use according to claim 11, wherein the topical skin preparation is in the form of an oil solution.
18. Use according to claim 17, wherein the oil is a medium chain triglyceride.
19. Use according to claims 11-18, wherein the topical preparation further comprises at least one additional therapeutically active agent.
20. Use according to claim 19 wherein the additional therapeutic agent is selected from the group consisting of: vitamin A, retinoic acid, vitamin D<sub>3</sub>, calcitriol, vitamin E, essential fatty acid, essential fatty acid ester, or a combination of at least two of the above agents
21. A method for the treatment of atrophy or aging of the skin comprising administering to a patient in need of such treatment a topical skin preparation as described in any one of claims 1-10.